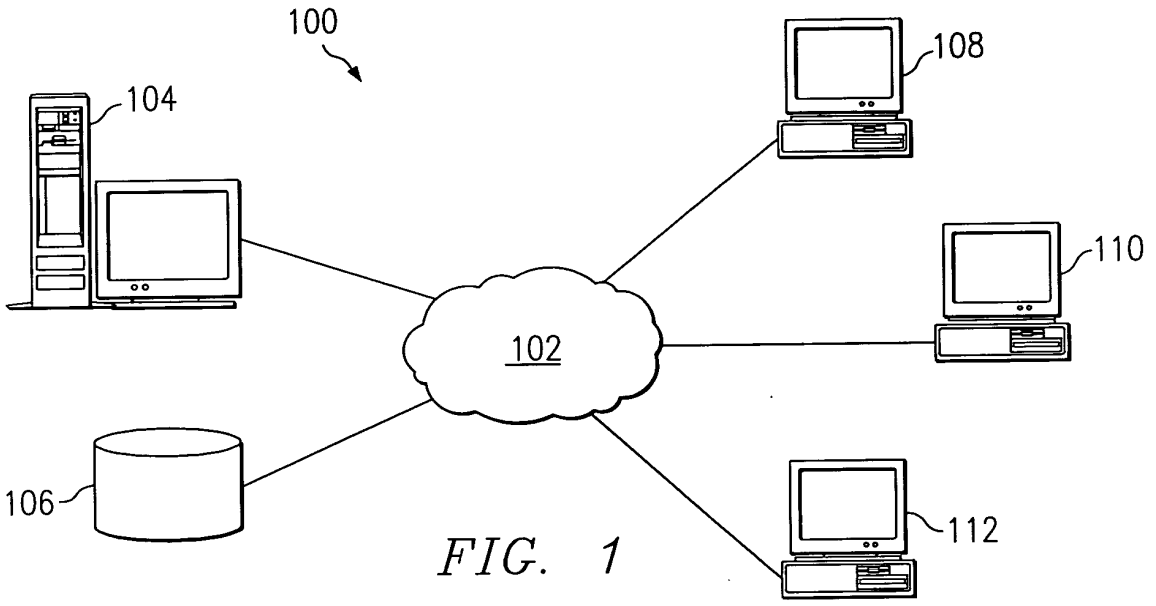

100
104
108
110
102
106
112

FIG. 1

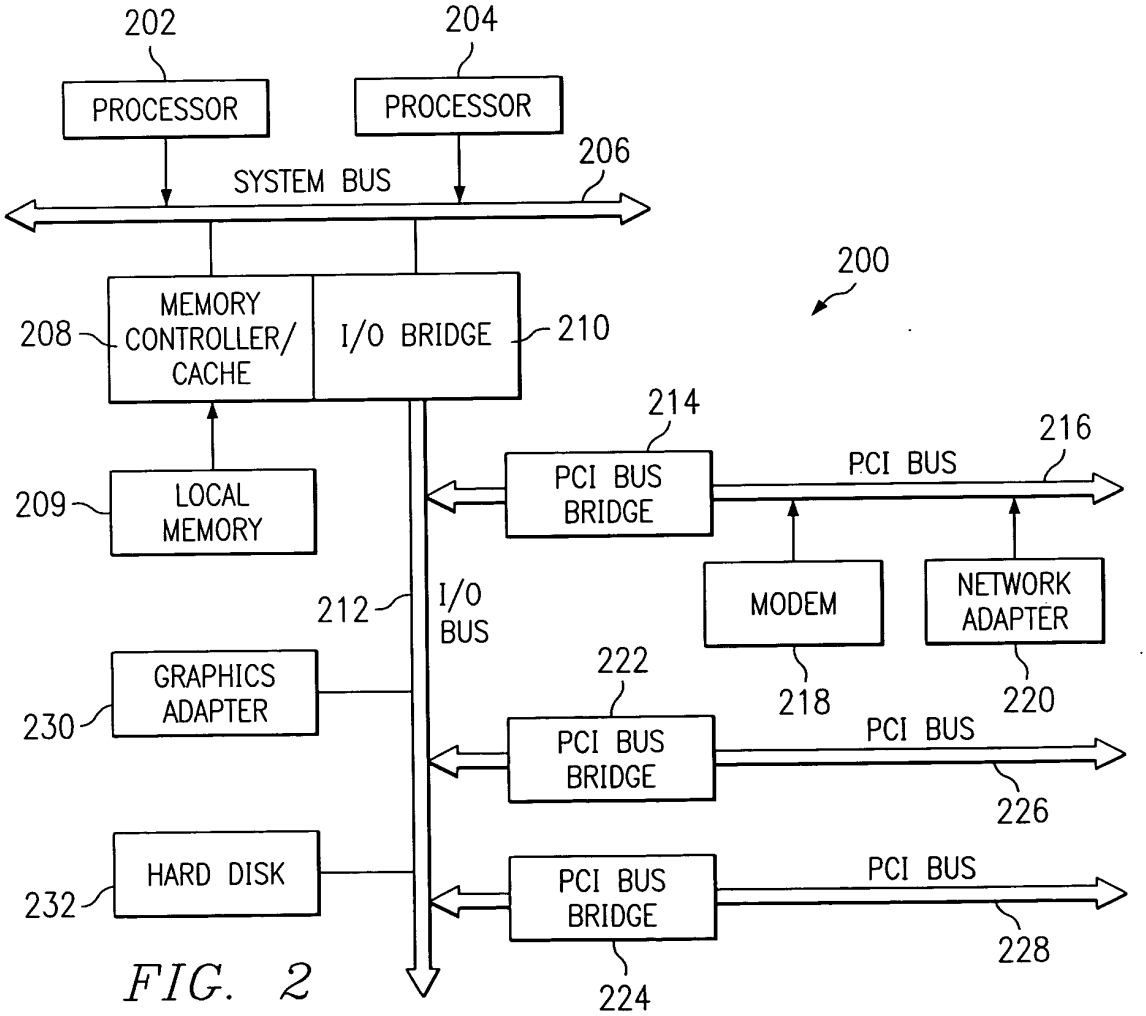

202
204
PROCESSOR
PROCESSOR
206
SYSTEM BUS
200
208
MEMORY CONTROLLER/ CACHE
I/O BRIDGE
210
214
216
PCI BUS BRIDGE
PCI BUS
209
LOCAL MEMORY
212
I/O BUS
MODEM
NETWORK ADAPTER
222
218
220
GRAPHICS ADAPTER
230
PCI BUS BRIDGE
PCI BUS
226
HARD DISK
232
PCI BUS BRIDGE
PCI BUS
228
224

FIG. 2

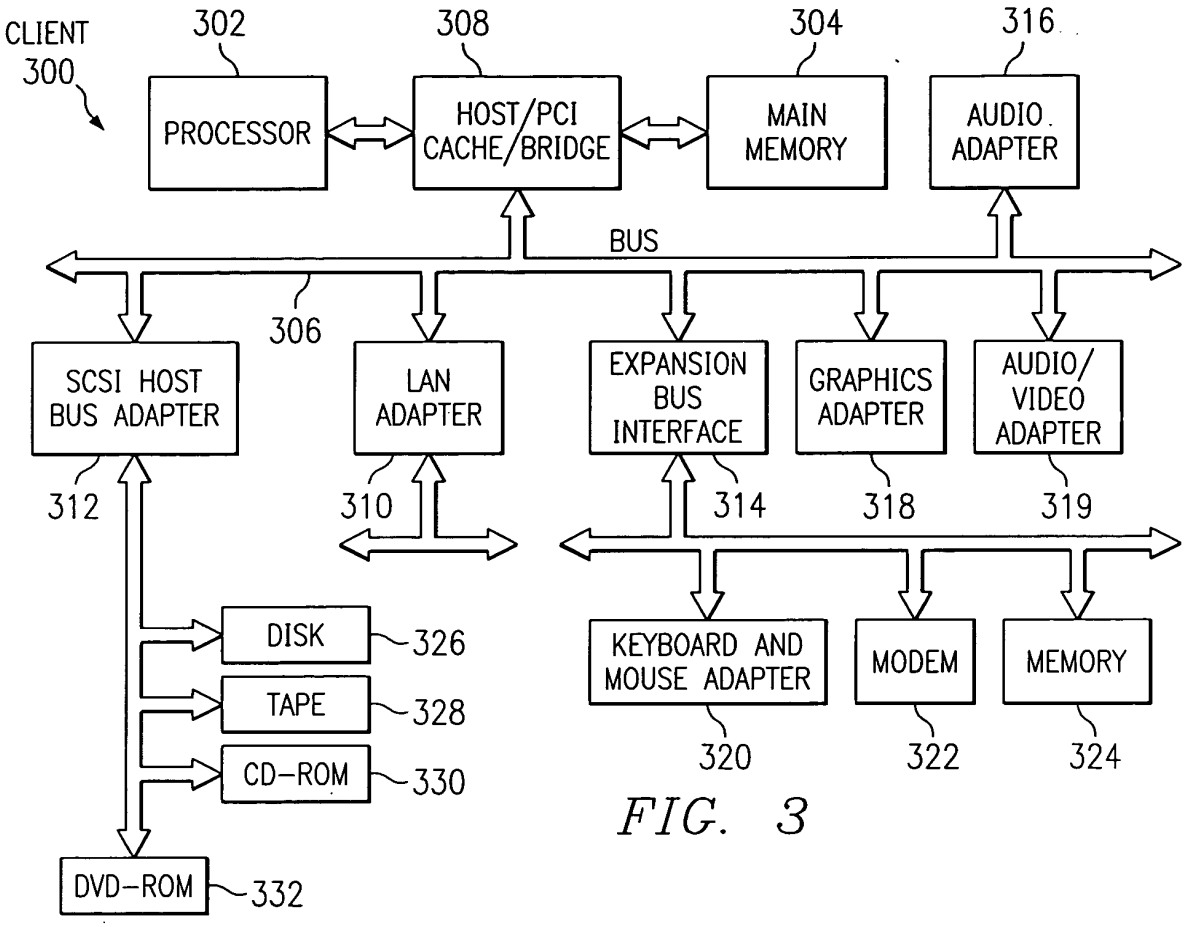

CLIENT
300
302
PROCESSOR
308
HOST/PCI CACHE/BRIDGE
304
MAIN MEMORY
316
AUDIO ADAPTER
BUS
306
SCSI HOST BUS ADAPTER
312
LAN ADAPTER
310
EXPANSION BUS INTERFACE
314
GRAPHICS ADAPTER
318
AUDIO/ VIDEO ADAPTER
319
DISK
326
TAPE
328
CD-ROM
330
DVD-ROM
332
KEYBOARD AND MOUSE ADAPTER
320
MODEM
322
MEMORY
324

FIG. 3

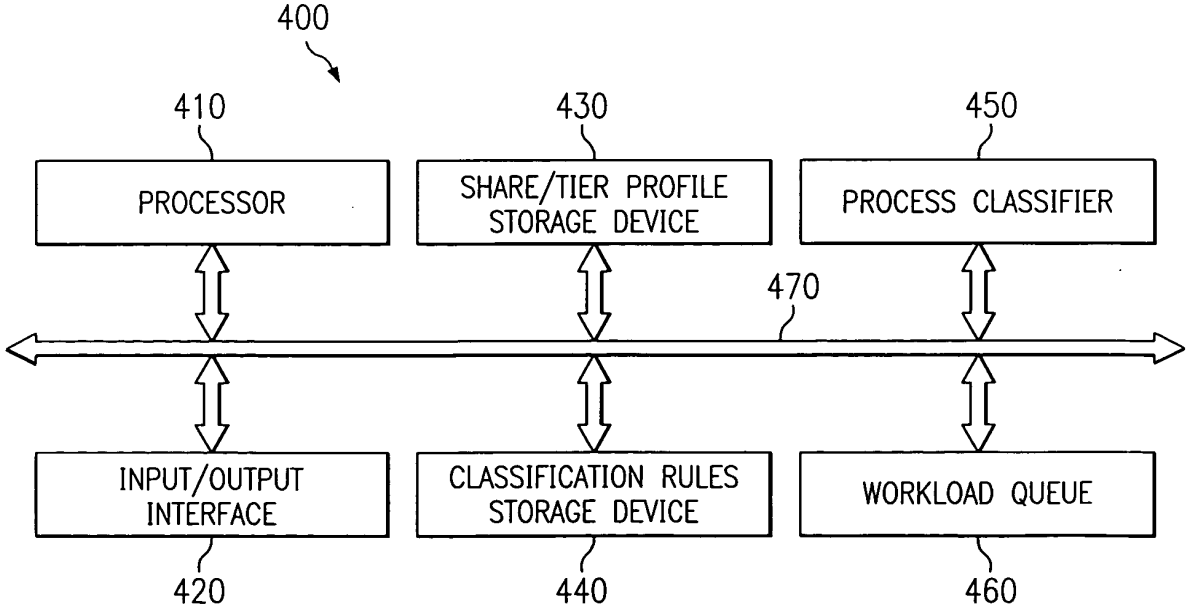
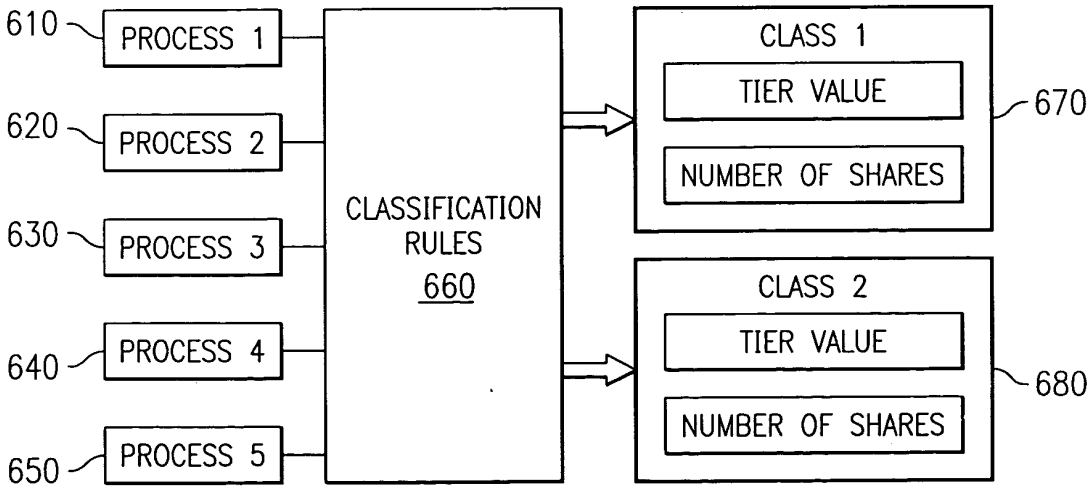

400
410
PROCESSOR
430
SHARE/TIER PROFILE STORAGE DEVICE
450
PROCESS CLASSIFIER
470
INPUT/OUTPUT INTERFACE
420
CLASSIFICATION RULES STORAGE DEVICE
440
WORKLOAD QUEUE
460

FIG. 4

FIG. 5

CLASS NAME	USER NAME	GROUP NAME	APPLICATION
SYSTEM	ROOT	----	----
SUPPORT	TECH 1, TECH 2	----	----
MARKETING	----	----	/bin/analysis
SKILLED	----	WEBMASTERS	/bin/emacs
PROMOTED	SALLY	STAFF	/bin/ksh, /bin/sh
GAMES	!bob, !ted	!managers	/bin/solitaire
BAD	HACKER	----	----

FIG. 6



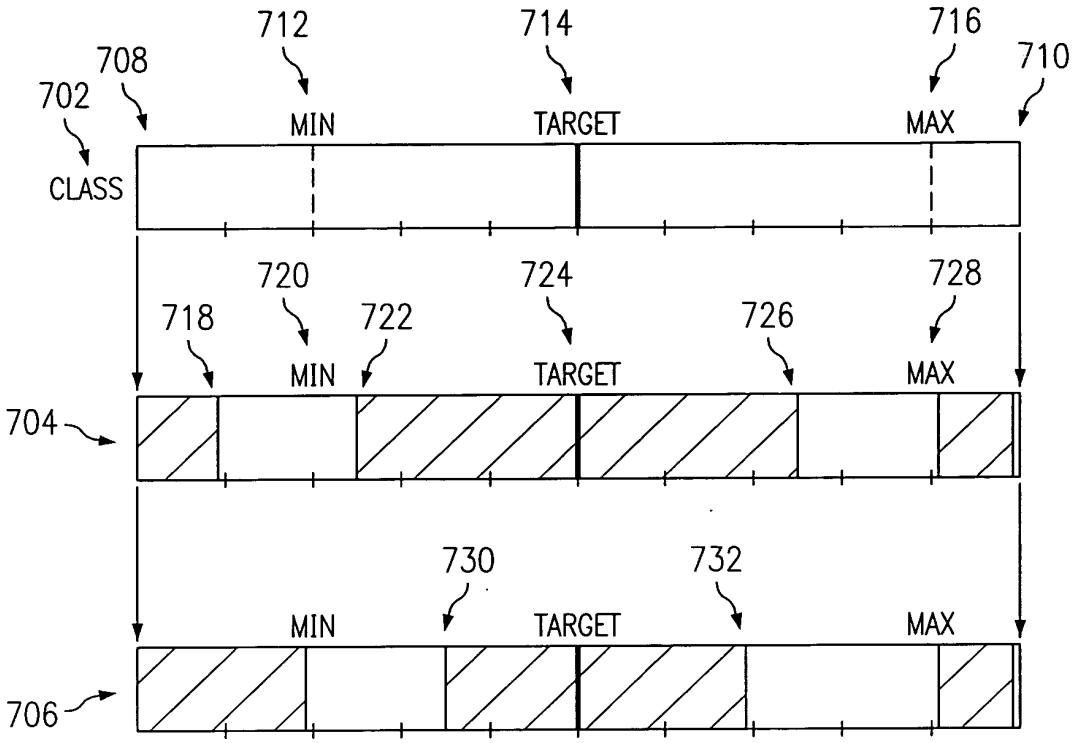

712
714
716
708
710
702
MIN
TARGET
MAX
CLASS
720
724
728
718
722
726
MIN
TARGET
MAX
704
730
732
MIN
TARGET
MAX
706

FIG. 7

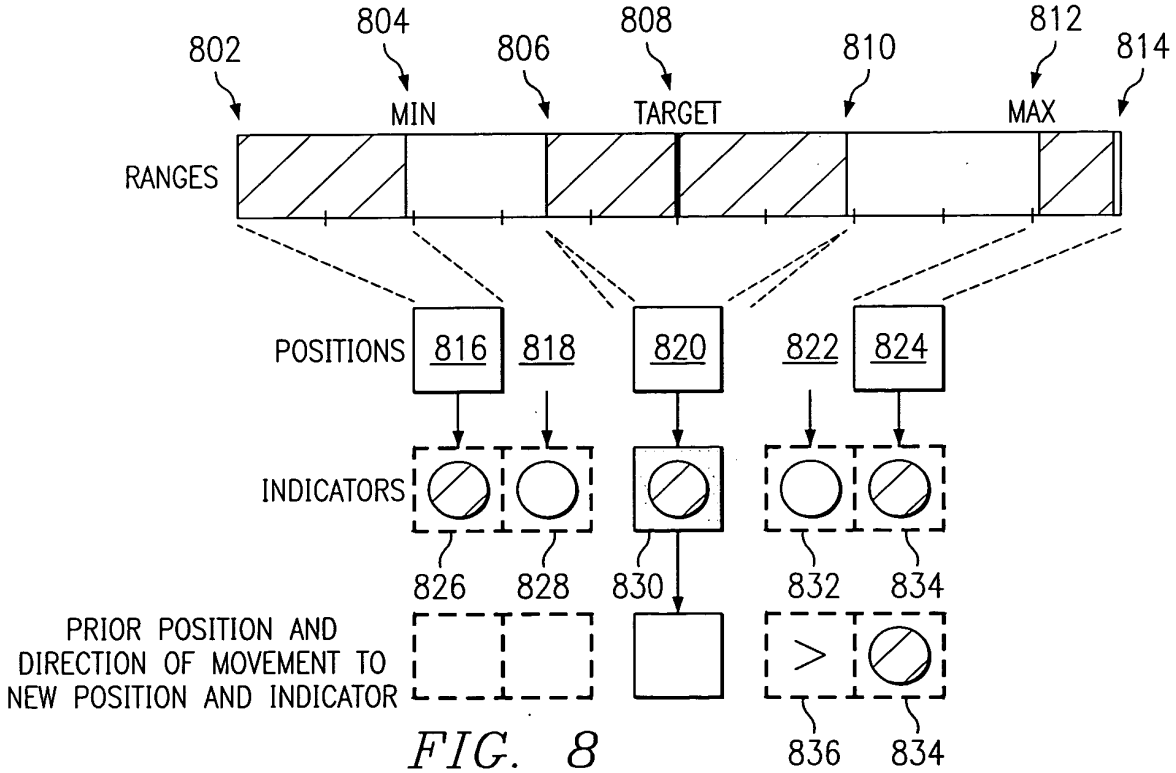

804
808
812
802
806
810
814
MIN
TARGET
MAX
RANGES
POSITIONS
816
818
820
822
824
INDICATORS
826
828
830
832
834
PRIOR POSITION AND DIRECTION OF MOVEMENT TO NEW POSITION AND INDICATOR
836
834

FIG. 8

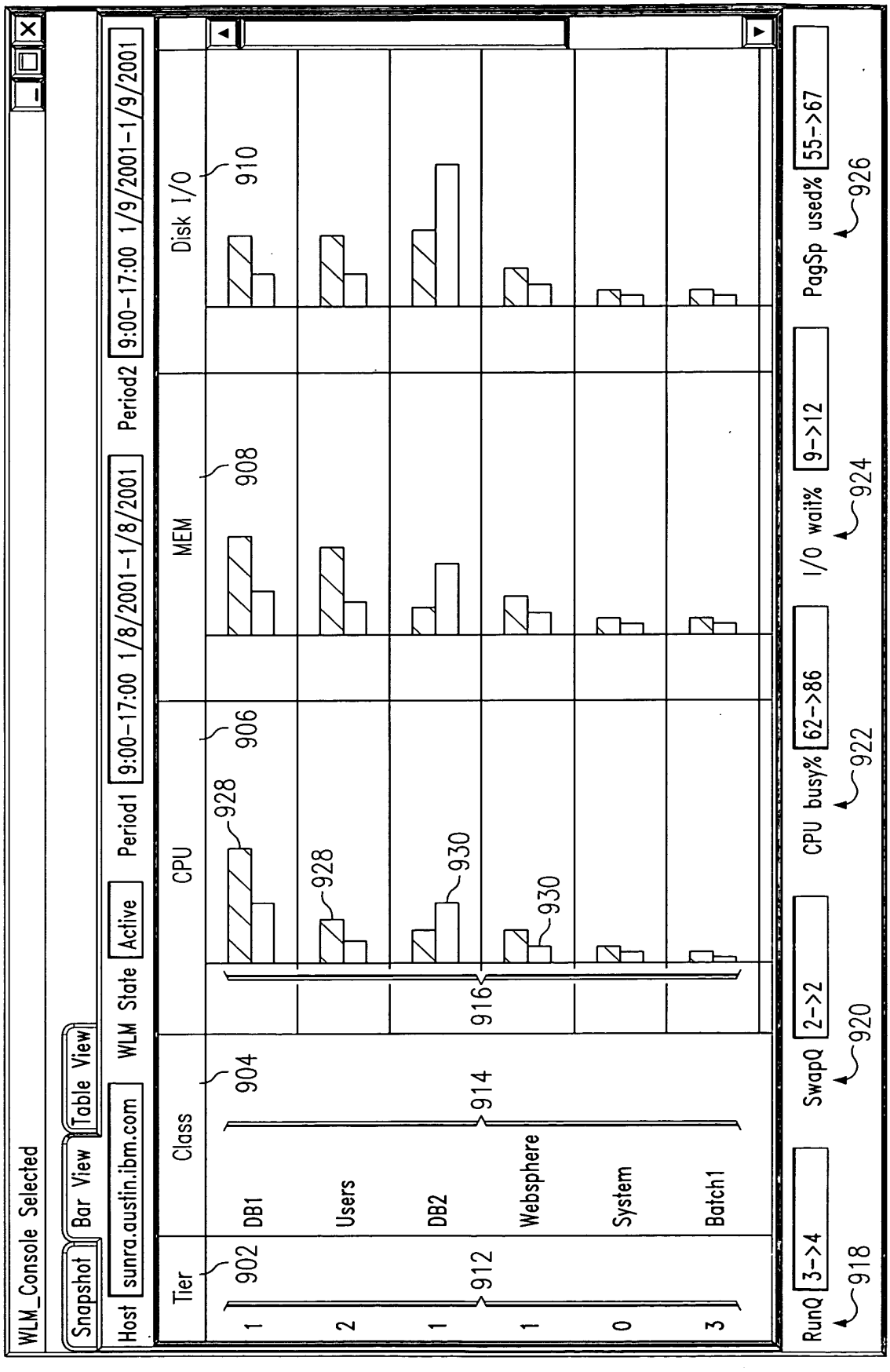

900
WLM_Console Selected
Snapshot
Bar View
Table View
Host sunra.austin.ibm.com
WLM State Active
Period1 9:00-17:00 1/8/2001-1/8/2001
Period2 9:00-17:00 1/9/2001-1/9/2001
Tier
Class
CPU
MEM
Disk I/O
902
904
906
908
910
912
914
916
928
930
DB1
Users
DB2
Websphere
System
Batch1
1
2
1
1
0
3
RunQ 3->4
SwapQ 2->2
CPU busy% 62->86
I/O wait% 9->12
PagSp used% 55->67
918
920
922
924
926

FIG. 9

FIG. 10

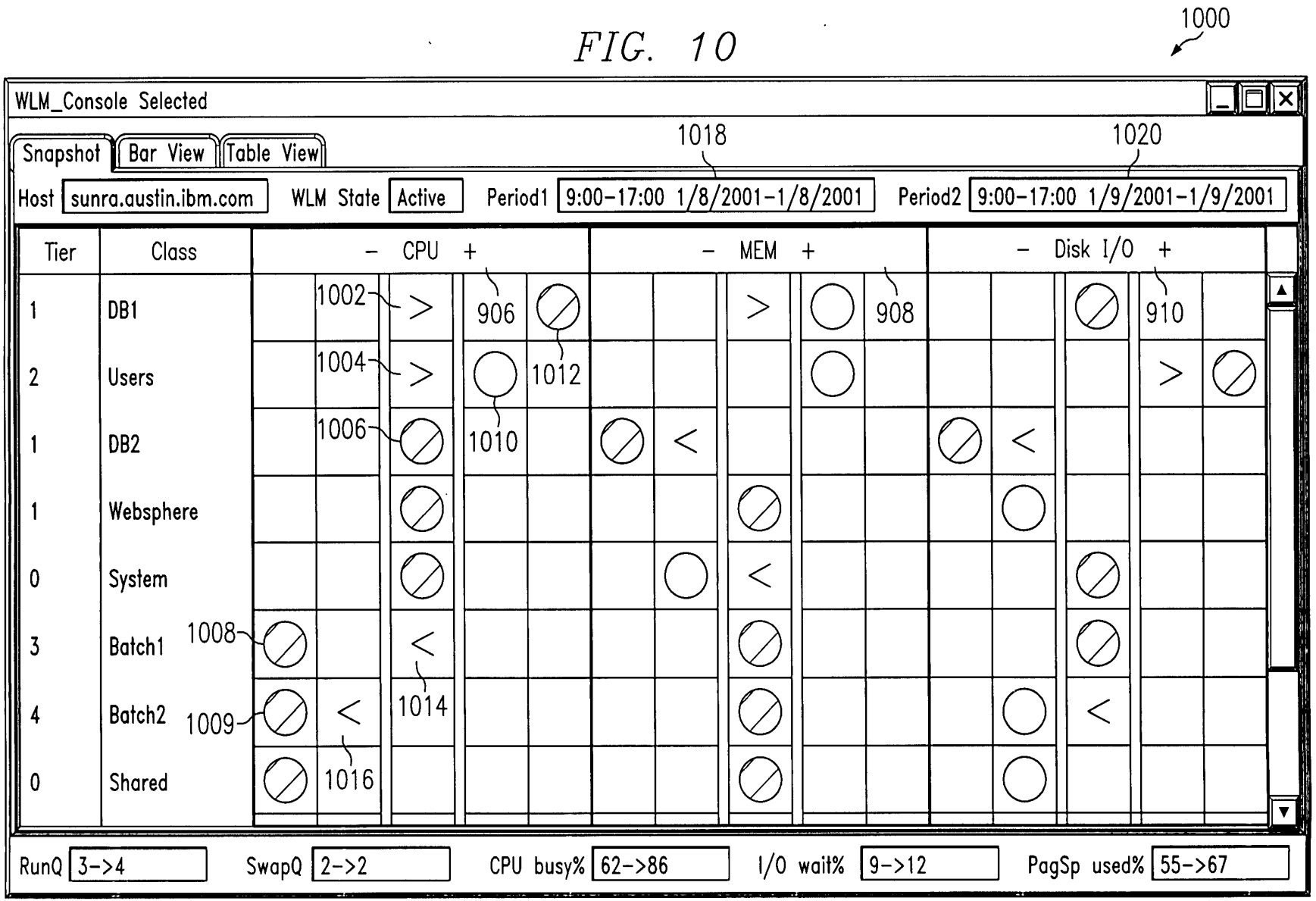
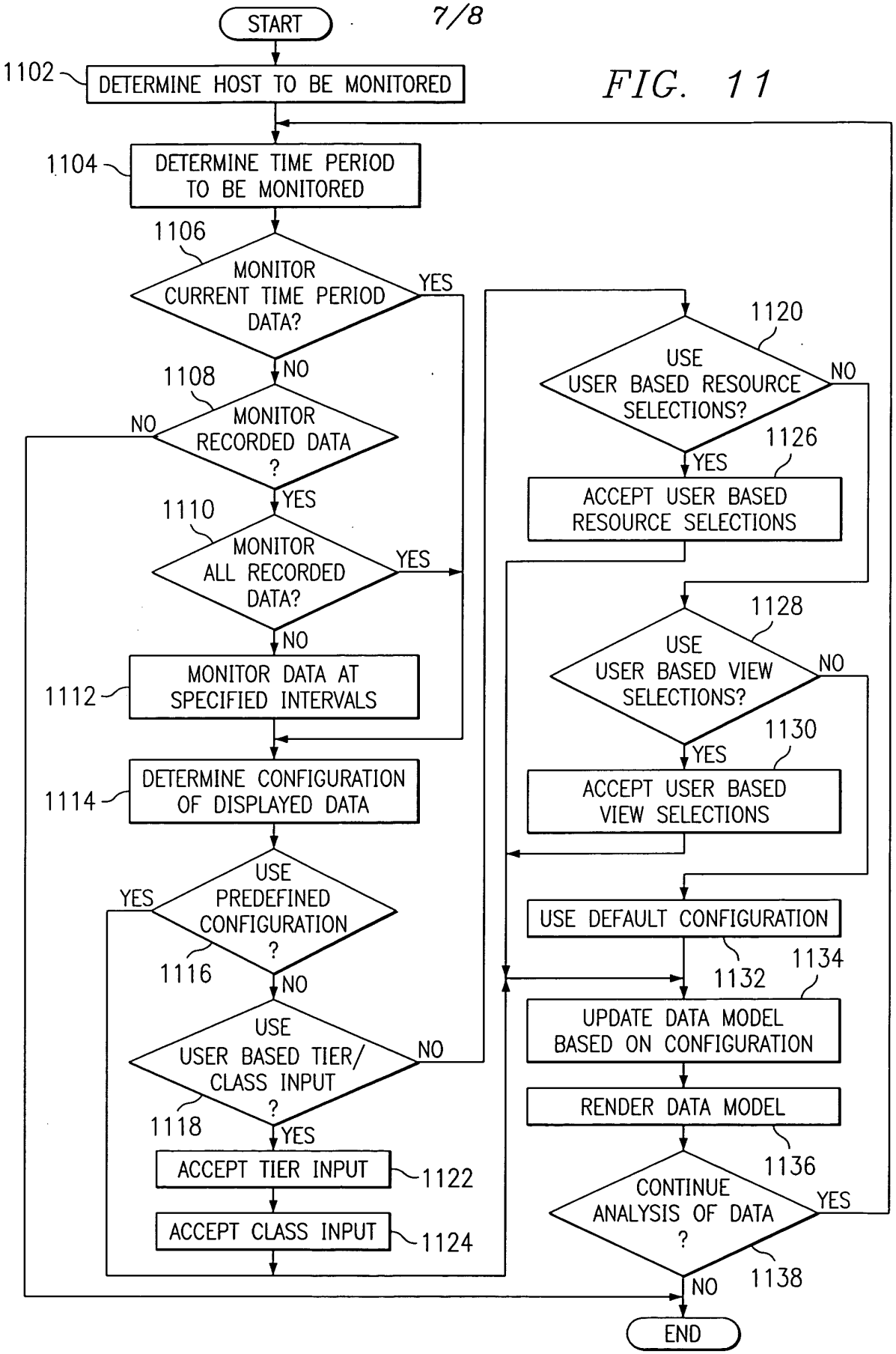

1000
WLM_Console Selected
Snapshot
Bar View
Table View
1018
1020
Host sunra.austin.ibm.com
WLM State Active
Period1 9:00-17:00 1/8/2001-1/8/2001
Period2 9:00-17:00 1/9/2001-1/9/2001
Tier
Class
- CPU +
- MEM +
- Disk I/O +
1 DB1
2 Users
1 DB2
1 Websphere
0 System
3 Batch1
4 Batch2
0 Shared
1002
1004
1006
1008
1009
1010
1012
1014
1016
906
908
910
RunQ 3->4
SwapQ 2->2
CPU busy% 62->86
I/O wait% 9->12
PagSp used% 55->67

FIG. 11


START
1102
DETERMINE HOST TO BE MONITORED
1104
DETERMINE TIME PERIOD TO BE MONITORED
1106
MONITOR CURRENT TIME PERIOD DATA?
YES
NO
1108
MONITOR RECORDED DATA ?
NO
YES
1110
MONITOR ALL RECORDED DATA?
YES
NO
1112
MONITOR DATA AT SPECIFIED INTERVALS
1114
DETERMINE CONFIGURATION OF DISPLAYED DATA
USE PREDEFINED CONFIGURATION ?
YES
1116
NO
USE USER BASED TIER/ CLASS INPUT ?
NO
1118
YES
ACCEPT TIER INPUT
1122
ACCEPT CLASS INPUT
1124
1120
USE USER BASED RESOURCE SELECTIONS?
NO
YES
1126
ACCEPT USER BASED RESOURCE SELECTIONS
1128
USE USER BASED VIEW SELECTIONS?
NO
YES
1130
ACCEPT USER BASED VIEW SELECTIONS
USE DEFAULT CONFIGURATION
1132
1134
UPDATE DATA MODEL BASED ON CONFIGURATION
RENDER DATA MODEL
1136
CONTINUE ANALYSIS OF DATA ?
YES
NO
1138
END

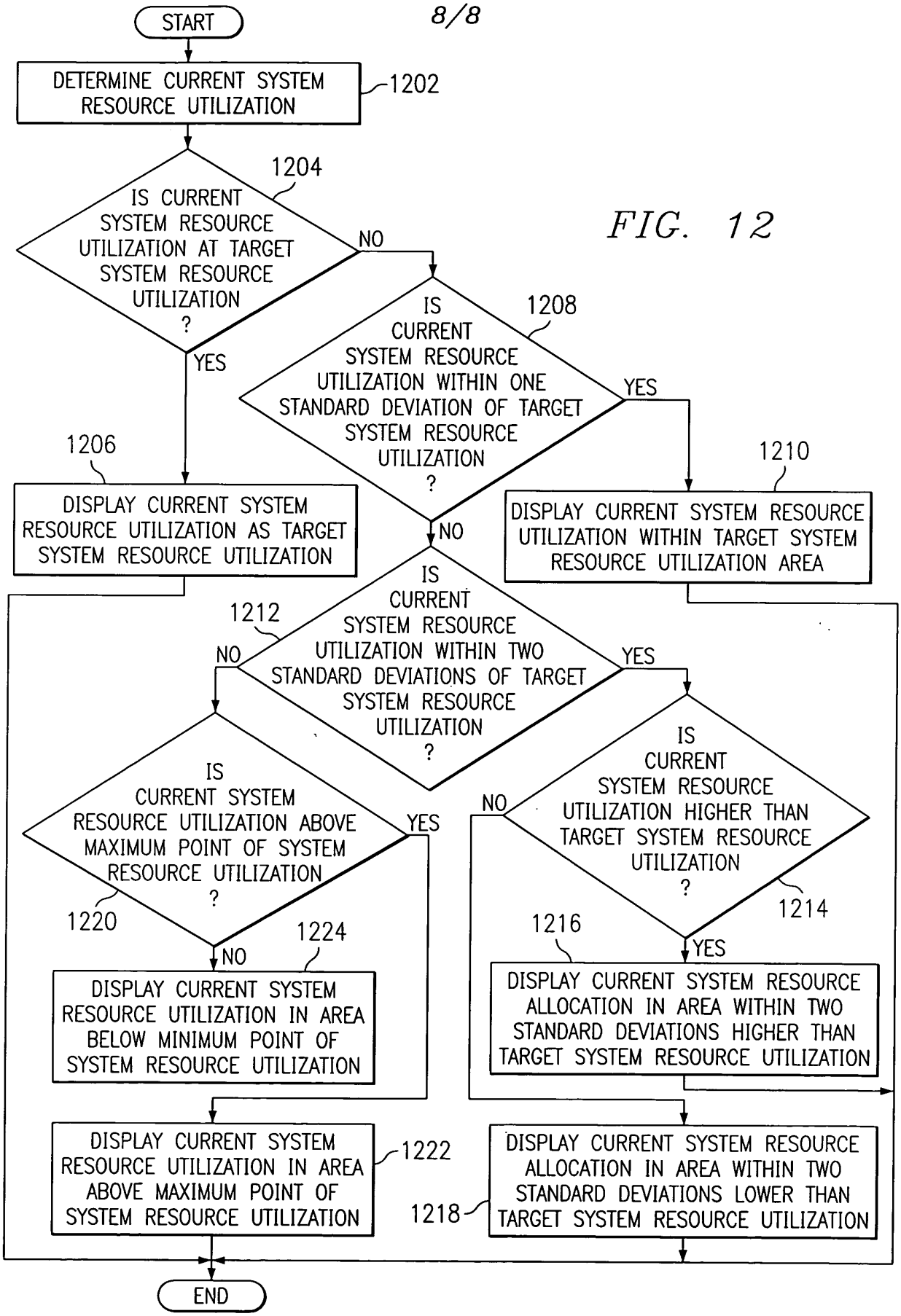

START
DETERMINE CURRENT SYSTEM RESOURCE UTILIZATION
1202
1204
IS CURRENT SYSTEM RESOURCE UTILIZATION AT TARGET SYSTEM RESOURCE UTILIZATION ?
NO
YES
1208
IS CURRENT SYSTEM RESOURCE UTILIZATION WITHIN ONE STANDARD DEVIATION OF TARGET SYSTEM RESOURCE UTILIZATION ?
YES
NO
1206
DISPLAY CURRENT SYSTEM RESOURCE UTILIZATION AS TARGET SYSTEM RESOURCE UTILIZATION
1210
DISPLAY CURRENT SYSTEM RESOURCE UTILIZATION WITHIN TARGET SYSTEM RESOURCE UTILIZATION AREA
1212
IS CURRENT SYSTEM RESOURCE UTILIZATION WITHIN TWO STANDARD DEVIATIONS OF TARGET SYSTEM RESOURCE UTILIZATION ?
NO
YES
IS CURRENT SYSTEM RESOURCE UTILIZATION ABOVE MAXIMUM POINT OF SYSTEM RESOURCE UTILIZATION ?
YES
1220
NO
1224
DISPLAY CURRENT SYSTEM RESOURCE UTILIZATION IN AREA BELOW MINIMUM POINT OF SYSTEM RESOURCE UTILIZATION
IS CURRENT SYSTEM RESOURCE UTILIZATION HIGHER THAN TARGET SYSTEM RESOURCE UTILIZATION ?
NO
1214
1216
YES
DISPLAY CURRENT SYSTEM RESOURCE ALLOCATION IN AREA WITHIN TWO STANDARD DEVIATIONS HIGHER THAN TARGET SYSTEM RESOURCE UTILIZATION
DISPLAY CURRENT SYSTEM RESOURCE UTILIZATION IN AREA ABOVE MAXIMUM POINT OF SYSTEM RESOURCE UTILIZATION
1222
DISPLAY CURRENT SYSTEM RESOURCE ALLOCATION IN AREA WITHIN TWO STANDARD DEVIATIONS LOWER THAN TARGET SYSTEM RESOURCE UTILIZATION
1218
END

FIG. 12